

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

1. (currently amended) A roll-bond type vertical evaporating panel for cooling a refrigerator or a freezer comprising:

a circuit ~~comprising~~ consisting of refrigerant flow channels and comprising a descending part and an ascending part;

~~the descending part of the circuit comprising a plurality of channels, wherein at least some of the channels of the descending part comprise each of the plurality of channels having a height, each of the plurality of channels also having a refrigerant accumulating area, the refrigerant accumulating area also having a height and a volume with a maximum height h_i , and~~

~~wherein the height of the refrigerant accumulating area of each of channel of the plurality of channels the totality of the heights h_i being adjusted such that the total volume of accumulating areas is greater than or equal to half the total volume of the cooling liquid and each height h_i is less than approximately 70% of the total height of the respective channel H_i .~~

2. (New) The evaporating panel of claim 1 further including a liquid refrigerant having a total volume, wherein the sum of the volumes of the plurality of refrigerant accumulating areas is equal to or greater than approximately 50% of the total volume of the liquid refrigerant.

23. (currently amended) The panel set forth in claim 1, ~~characterized in that~~ wherein one end of ~~at least one or more of~~ the plurality of channels is curved upwards so as to form a siphon and create an ~~the~~ accumulating area.

34. (currently amended) The panel set forth in either claim 1 or 2, ~~characterized in that~~ wherein at least one of the plurality of channels is provided with a plurality of downward projections facing downwards, the projections forming accumulating areas.

[4]5. (currently amended) The panel set forth in one of claims 1 to 32, ~~characterized in that~~ it further comprises a boiler area with ~~type channel including a plurality of disk-shaped~~

~~welded central areas~~parts.

56. (currently amended) ~~The p~~Panel set forth in claim [4]5, ~~characterized in that~~wherein the sum each of the disk shape parts has a width and the boiler area has a length and wherein the sum of the widths ~~of the disk-shaped parts is equal to or less than approximately~~ does not exceed 90% of the ~~total length~~ L of the boiler area.

7. (New) A roll-bond type evaporating panel comprising:

a circuit comprising :

a plurality of flow channels;

at least some of the plurality of flow channels each having an accumulating area;

wherein the height of the accumulating area of each particular channel in the plurality of flow channels is no more than approximately 70% of the height of the particular channel, and

wherein the evaporating panel contains an overall total volume of liquid, and wherein a portion of the total volume of liquid in the evaporating panel is located in the accumulating areas of the plurality of flow channels, and wherein the total volume of liquid that is in the accumulating areas of the plurality of flow channels is greater than or equal to approximately 50% of the total volume of liquid in the evaporating panel.

8. (New) The panel of claim 7 further comprising a compressor.

9. (New) The panel set forth in claim 7 wherein at least one end of at least one of the plurality of flow channels is curved upward.

10. (New) The panel of claim 9 wherein at least one end of several of the plurality of flow channels is curved upward.

11. (New) The panel of claim 7 wherein at least several of the plurality of flow channels are horizontal.

12. (New) The panel of claim 11 wherein at least one of the plurality of flow channels includes a vertical projection facing downward on the channel for accumulating cooling liquid.
13. (New) The panel set forth in claim 12, further comprising a boiler-type channel.
14. (New) The panel set forth in claim 13, wherein the boiler-type channel includes a plurality of disk-shaped welded parts and wherein the sum of the widths of all of the plurality disk-shaped parts does not exceed 90% of the width of the boiler-type channel.
15. (New) A panel comprising:
 - a circuit comprising a descending part and an ascending part,
 - wherein liquid is present in the circuit, and
 - wherein the descending part of the circuit comprises a plurality of flow channels each of which has an accumulating area; and
 - wherein the volume of liquid present in the accumulating areas in all of the plurality of flow channels is no less than 50% of volume of liquid present in the circuit.
16. (New) The panel set forth in claim 15, wherein each of the accumulating areas has a height and wherein each of the plurality of flow channels has a height, and wherein the height of each accumulating area is no more than 70% of the height of the flow channel in which the accumulating area is located.
17. (New) The panel set forth in claim 16 further comprising a horizontal plane that separates the circuit into two compartments.
18. (New) The panel set forth in claim 15, wherein at least one of the plurality of channels is provided with projections facing downwards forming accumulating areas.
19. (New) The panel set forth in claim 16, further comprising a boiler type channel including disk-shaped welded central areas.
20. (New) The panel set forth in claim 18 further comprising a compressor.